

Title (en)

STRUCTURAL LINK BETWEEN TWO RAIL VEHICLE SUBASSEMBLIES AND ASSOCIATED RAIL VEHICLE ASSEMBLY

Title (de)

STRUKTURELLE VERBINDUNG ZWISCHEN ZWEI SCHIENENFAHRZEUGUNTERBAUGRUPPEN UND ZUGEHÖRIGE SCHIENENFAHRZEUGBAUGRUPPE

Title (fr)

LIAISON STRUCTURELLE ENTRE DEUX SOUS-ENSEMBLES DE VÉHICULE FERROVIAIRE ET ENSEMBLE DE VÉHICULE FERROVIAIRE ASSOCIÉ

Publication

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Application

EP 18196006 A 20180921

Priority

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Abstract (en)

A permanent structural link (18) for permanently linking a first subassembly of a rail vehicle assembly with a second subassembly of the rail vehicle assembly, comprises: an energy absorption unit (20) comprising a permanently deformable cylinder (28), which defines a reference axis (100) and a widened portion (30), which has an inner cross-sectional area greater than the permanently deformable cylinder (28), a piston (24) comprising an end portion (44) provided with a non-deformable piston head (52), wherein the piston head (52) in a service position is received in the widened portion (30) of the energy absorption unit (20), wherein the piston head (52) is such as to effect a radial expansion of the permanently deformable cylinder (28) while moving within the permanently deformable cylinder (28) in a stroke direction (200) parallel to the reference axis (100), and an annular guide (58) for guiding a relative translation motion between the piston (24) and the permanently deformable cylinder (28) in the stroke direction (200). The piston (24) comprises a piston rod (42) protruding from the end portion (44) in a direction parallel to the reference axis (100) and opposed to the stroke direction (200). The piston rod (42) is provided with an outer cylindrical sliding surface (74), and the annular guide (58) is fixed relative to the widened portion (30) of the energy absorption unit (20) and has an inner diameter such as to be in sliding contact with the outer cylindrical sliding surface (74) of the piston rod (42).

IPC 8 full level

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CPC (source: EP)

B61G 5/02 (2013.01); **B61G 11/16** (2013.01)

Citation (applicant)

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Citation (search report)

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